

ABSTRAK

KORELASI HORMON TESTOSTERON DENGAN FREKUENSI BIRAHİ KURA-KURA SULCATA (*Centrochelys Sulcata*) JANTAN DI MINI ZOO JOGJA EXOTARIUM

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Kadar testosteron dalam tubuh akan mempengaruhi perilaku dari kura-kura sulcata jantan terutama dalam aktivitas reproduksi. Salah satu tingkah laku birahi kura-kura yang dapat dijadikan indikator aktivitas reproduksi adalah pengeluaran penis. Penelitian ini bertujuan mengetahui korelasi hormon testosteron dengan frekuensi birahi kura-kura sulcata (*Centrochelys sulcata*) jantan di Mini Zoo Jogja Exotarium. Pada penelitian ini menggunakan sampel feses sejumlah tujuh yang dikoleksi dari kura-kura jantan terbesar yang ada di Mini Zoo Jogja Exotarium. Pengamatan frekuensi birahi dilakukan dengan menghitung frekuensi perilaku mengeluarkan *phallus* (penis). Sampel feses yang telah terkumpul dilakukan liofilisasi selama 72 jam dan diekstraksi dengan methanol 80%, kemudian dianalisis menggunakan metode ELISA. Kadar testosteron feses kura-kura sulcata tertinggi sebesar 191,29 ng/gr feses kering dengan frekuensi perilaku pengeluaran penis sebanyak satu kali, sedangkan kadar testosteron terendah sebesar 32,92 ng/gr feses kering frekuensi perilaku pengeluaran penis sebanyak satu kali. Frekuensi perilaku pengeluaran penis tertinggi sebanyak 5 kali dalam sehari saat kadar testosteron 180,96 ng/gr feses kering. Hasil analisis statistik menunjukkan tidak ada korelasi antara kadar testosteron feses dengan aktivitas birahi berupa pengeluaran penis pada kura-kura sulcata. Berdasarkan hasil penelitian dapat disimpulkan bahwa kadar testosteron feses tidak berkorelasi dengan frekuensi birahi kura-kura sulcata jantan.

Kata kunci : Sulcata jantan, testosteron, frekuensi birahi, feses, ELISA

ABSTRACT

CORRELATION OF TESTOSTERONE HORMONE WITH COURTSHIP BEHAVIOR FREQUENCY OF MALE SULCATA TORTOISE (*Centrochelys sulcata*) AT MINI ZOO JOGJA EXOTARIUM

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Testosterone levels in the body will influence the behavior of male sulcata tortoises, especially in reproductive activities. One of the tortoise's sexual behaviors that can be used as an indicator of reproductive activity is penis expulsion. This study aims to determine the correlation between the hormone testosterone and the frequency of courtship behavior in male sulcata turtles (*Centrochelys sulcata*) at the Mini Zoo Jogja Exotarium. In this study, seven feces samples were collected from the largest male turtles at the Mini Zoo Jogja Exotarium. Observation of the frequency of courtship behavior is carried out by calculating the frequency of visualizing phallus (penis). The collected fecal samples were lyophilized for 72 hours and extracted with 80% methanol, and analyzed using the ELISA method. The highest testosterone level in sulcata tortoise feces was 191.29 ng/g dry feces with a frequency of penile expulsion behavior once, while the lowest level was 32.92 ng/g dry feces with a frequency of penile expulsion behavior once. The highest frequency of penile expulsion behavior was five times a day when the testosterone level was 180.96 ng/g dry feces. The results of statistical analysis showed that there was no correlation between fecal testosterone levels and courtship activity in the form of penile expulsion in sulcata tortoises. Based on the study results, it can be concluded that fecal testosterone levels do not correlate with the frequency of courtship in male sulcata tortoises.

Key words : Male sulcata, testosterone, courtship frequency, feces, ELISA